

PATENT COOPERATION TREATY
PCT
INTERNATIONAL SEARCH REPORT
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 54923PCT	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/AU2004/001415	International filing date (<i>day/month/year</i>) 15 October 2004	(Earliest) Priority Date (<i>day/month/year</i>) 17 October 2003
Applicant VICIOUS POWER PTY LTD et al		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of **5** sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II).

3. ☐ Unity of invention is lacking (See Box No. III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. **5**

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

Box No. IV Text of the Abstract (Continuation of item 5 of the first sheet)

A power controller for use with lighting systems including a direct current voltage source [50], a coil of known inductance [55], a switch means [54] adapted to control application of the source voltage to the coil, means adapted to select a required duty cycle for the switch such that the input power level is substantially constant, and means [51] adapted to control operation of the switch such that this selected duty cycle is effected. A switch mode DC-DC converter is disclosed, wherein regulation occurs by manipulation of input power, without current monitoring.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001415

A. CLASSIFICATION OF SUBJECT MATTER Int. Cl. ⁷ : H05B 41/16, H02M 3/22 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI, esp@cenet IPC: H05B-31/-,33/-,35/-,37/-,39/-,41/-,43/-; H02M-3/-,7/-,11/-; H01J-61/-,63/-,65/-; G05F & keywords: LIGHT, SWITCHED MODE, POWER SUPPLY, DUTY CYCLE, COIL, REGULATE and other terms and phrases.		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1001520 A2 (SONY CORPORATION TOKYO (JP)) 17 May 2000 See whole document	1-21
X	WO2001/086796 A1 (SONY CORPORATION) 15 November 2001 See whole document	1-21
X	WO 2002/039570 A1 (PARK JOON-HO) 16 May 2002 See whole document	1-21
X	US 5625538 A (LEE ET AL) 29 April 1997 See whole document, especially abstract, Fig.3, column 3 line 60 - column 5 line 16, column 8 line 47 - column 9 line 30.	1-21
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family	
Date of the actual completion of the international search 14 December 2004	Date of mailing of the international search report 06 JAN 2005	
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929	Authorized officer BAYER MITROVIC Telephone No : (02) 6283 2164	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001415

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2688359 A (ENERTRONIC) 10 September 1993 See abstract from esp@cenet and machine translation of the original document.	1-21
X	GB 2261779 A (TOKYO ELECTRIC CO LTD) 26 May 1993 See whole document.	1-21
X	US 5298836 A (BACKMUND ET AL) 29 March 1994 See whole document, especially abstract and Fig.1-7	1-21
X	US 5696670 A (ROEDERER ET AL) 9 December 1997 See whole document, especially abstract and Fig.1	1-21
X	Derwent Abstract Accession No. 2003-271861/27, Class U12, JP 2003047242 A (SANKEN DENKI KK) 14 February 2003 See abstract.	1-21
X	Derwent Abstract Accession No.98-575792/49, Class X26, JP 10257765 A (ORIGIN ELECTRIC CO LTD) 25 September 1998 See abstract.	1-21
X	Derwent Abstract Accession No.96-169547/17, Class U21 U24, JP 08051774 A (NEC CORP) 20 February 1996 See abstract.	1-21

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/001415

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member					
EP	1001520	JP	2000152617	KR	2000035380	US	6317337
WO	0186796	AU	44319/00	BR	0012366	CA	2379089
		EP	1281233	PL	353320	US	6587358
WO	0239570	AU	14363/02	KR	2002036166		
US	5625538	DE	4412544	JP	6327247	NL	9400580
FR	2688359						
GB	2261779	JP	5161366	JP	5211774	JP	5284757
		JP	5336755	JP	10108473	US	5331534
US	5298836	DE	4128314	EP	0529551		
US	5696670						
JP	2003047242						
JP	10257765						
JP	8051774						
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.							
END OF ANNEX							